- I ACCATOCTON GTAATGAGTG GCCTGGGCCG GAGCAGGCGA GGTGGCCGGA GCCGTGTGGA CCAGGAGGAG CGCTTTCCAC AGGGCCTGTG GACGGGGTG TCGIAGGACT CATIACTCAC CGGACCCGGC CTCGTCCGCT CCACCGGCCT CGCCACACCT GGTCCTCCTC GCGAAAGGTG TCCCGGACAC CTGCCCCACAC R R <u>ш</u> ۵ د G G R S S R R بر س
- TCAGAGCCAG CGCACCTGTG AGTOTOGGTO GOGTGGACAC 7 7 0 GACGTACAGG ACGTTTTGGT AAACGTTGGT CTGCATGTCC TGCAAACCA TTTGCAACCA Ξ Z C K T S S CCTGCCCCGA AGAGCAGTAC TGGGATCCTC TGCTGGGTAC GGACGGGGT TCTCGTCATG ACCTAGGAG ACGACCCATG 1 0 2 G W × 0 ជ 101 GCTATGAGAT CGATACTCTA 30
- CAGCTCACTC AGCTGCCGCA AGGAGCAAGG CAAGTTCTAT GACCATCTCC TGAGGGACTG CATCAGCTGT GCCTCCATCT GTGGACAGCA CTGGTAGAGG ACTCCCTGAC GTAGTCGACA CGGAGGTAGA CACCTGTCGT ж О ASIC U S S 2 O X D H L 1 GTCGGAAGAC GTCCAGTGAG TCGACGCGT TCCTCGTTCC GTTCAAGATA K F Y **ပ** W SCRK . 7 S 201 CAGCCTTCTG 9
- 30) CCCIAAGCAA TGTGCATACT TCTGTGAGAA CAAGCTCAGG AGCCCAGTGA ACCTTCCACC AGAGCTCAGG AGACAGGGGA GTGGAGAAGT TGAAAACAAT reference cacererea activistra z z u С В R Q R S GGGATTCGTT ACACGTATGA AGACACTCTT GTTCGAGTCC TCGGGTCACT TGGAAGGTGG TCTCGAGTCC E 1. R 1. P. P. N A S × 22 2 3 7 6
- CTCCCGGGGC TGAAGCTGAG TGCAGATCAG GTGGCCCTGG agicigitar scccitical saticatrac cicatatolo cardicitos ticagetosa gregococos roticaroto rosicirato crossgraco V A L V 1. P G 1. 401 TCAGACHACT CGGGRAGGTA CCAAGGATTG GAGCACRGAG GCTCAGAAGC AAGTCCAGCT SPA Z Σ S E E ى ئ o 130 S D X
- GGGGATCCCT GCTCCTGCCA CCCCTAGGGA CGAGGACGGT Q ဟ 0 0 0 CAAGAAGAGG CACCGCCACC GGACGAAGGA GITCIICICC * * recording contents creening engenees conserved C) A V A V AGATGTCGTG CGACCCCGAG ACGGACACAC GGCAGGAGAC GACGAAGGAC CFL 7 2 C 1 C A CCTGGGGCTC بر ن د 501 TCTACAGCAC 164
- AGCCCCGTC AAAGICCGGC CAAGTCTTCC CAGGATCACG CGATGGAAGC CGGCAGCCCT GIGAGCACAI CCCCCGAGCC AGTGGAGACC cessecans iccssscar itterssces siterarans sicetasic seineetes secsicssa enetesista ssssetes ieneeteiss s N S G Σ O D H A 601 GCCCCGCTCA S 197
- GTGCAGGGCG CCCACGCAGG AGAGCGCAGT CACGCCTGGG ACCCCCGACC CCACTTGTGC TGGAAGGTGG GGGTGCCACA CACGICCCGC GGGIGCGICC ICICGCGICA GIGCGGACCC IGGGGGCIGG GGIGAACACG ACCTICCACC CCCACGGIGI 40 5 а. О <u>م</u> 1 0 SAV 7 7 0 E C 28 GCTTCCCTGA ACGTCGAAGA CGAAGGGACT ra Fr U 701 TGCAGCTTCT 230 C S F
- GGICCIGGIG ICAGGACGIC GGAACGGGIG IGIAGGGICI GICACCGGAA CCGIAACACA CACACGGACG GGICCICCCC CCGGGICCAC GIAITIACCC 801 CCAGGACCAC AGTCCTGCAG CCTIGCCCAC ACAICCCAGA CAGIGGCCTI GGCAITGIGI GIGIGCCIGC CCAGGAGGG GGCCCAGGIG CAIAAAIGGG *9* ш ۷ ۹ GIVC 2 8 I P D P C P H 0 > 1 7. T.

FIG. 1A

1201 GAGCAGGAGG TCGGGGCACT CTGAGTCCCA GITCCCAGIG CAGCTGIAGG TCGTCATCAC CIAACCACA GIGCAAIAAA GICCTGGTGC CTGCTGCTCA CTCGTCCTCC AGCCCCGTGA GACTCAGGGT CAAGGGTCAC GTCGACATCC AGCAGIAGTG GAITGGTGT CAGATAIIT CAGAGCAGG GACGAGGAGT

1301 CAGCCCCCGA GAGCCCCTCC TCCTGGAGAA TAAAACCTTT GGCAGCTGCC CTTCCTCAAA AAAAAAAA AAAAAAA AAAAAAA GCCGCGGGGGGCCT CTCGGGGGAGG AGGACCTCTT ATTTTGGAAA CCGTCGACGG GAAGCAGTTT TTTTTTTTT TTTTTTTT

FIG. 18

		,			,
50 PLLGTCHSC PLLGTCMSC	6 A X 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	RGSEASPAL 200 PCSCQPRSR PCSCQPRSR	250 QESAVTPGT QESAVTPGT 300		
40 S C P E E Q Y W D S C P E E Q Y W D	8 D C I S C A S C C C A S C C C C A S C C C C A S C C C C	a o = :	CFPECRAPT CFPECRAPT 290 APPREG C	e e general	
30 G L W T G V A M R G L W T G V A M R	80 20 2 2 3 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3	G E V E N N S D N V L C C F L V A V	230 PEPVETCSF PEPVETCSF 280 280	FIG. 1C	
20 V D Q E E R F P Q (70 C R S L S C R K C R S L S C R K L S C R K D C R S L S C R K C R S L S C R C R K C R S L S C R C R K C R S L S C R C R K C R S C R S C R C R C R C R C R C R C R	PPELRRGRS 170 STLGLCLCAV	220 A G S P V S T 3 A G S P V S T 5 270 270 T V L Q P C P H	U.	
NS R R G G R S R R	60 9 S Q R T C A A Q S Q R T C A A 110	160 V V L V V V V V V V V V V V V V V V V	260 260 260 260 260 260 260 260 260 260		
を と い い い い い い い い い い い い い	7 X X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(((((((((((((((((((
htaci(265) htaci	hTACE(26S; hTACE	HTACI HTACI HTACI (265)	hTACI(265) hTACI hTACI hTACI(265)		

- GCAGGCGAAG CGICCGCIIC CCCCCGTAAG AACCCACGAA GAATCITIGA ACTIAAICIA CACCAIAAGI ITAGGAAIGC ACGCCGCTIC IGIGICIGIC GGGGGCAIIC ITGGGIGCII AATCCTTACG TGCCGCGAAG ACACAGACAG TGAATTAGAT GTGGTATTCA CTTAGAAACT AAGACTCAAA TTCTGAGTTT
- CATCGAGGGA GTAGCTCCCT TCGACGAGAA CGACGTAAAC GAGACCTTAA GAACATCTCT ATAATGAACA GGAAGGTCCG ACAAGAAAGA TGTTCTTTCT CCTTCCAGGC TATTACTTGT CTTGTAGAGA CTCTGGAATT AGCTGCTCTT GCTGCATTTG AGTTGTAAGA TCAACATTCT **AAGTAACAAG** TTCATTGTTC
- GTTGAAGCTA Me tLeuGinMet AlaGlyGlnC ysSerGlnAs nGluTyrPhe AspSerLeuL euMisAlaCy sIleProCys GlnL uArgC GACAGTITGI IGCAIGCIIG CAIACCIIGI CAACTICGAI GTATGGAACA CTGTCAAACA ACGTACGAAC GTTGCAGATG GCTGGCCAGT GCTCCCAAAA TGAATATTTT CGAGGGTTTT ACTTATAAA CAACGICIAC CGACCCGICA TTGTGATCAT ACAAAAGAAA AACACTAGTA TGTTTTCTT 201
- CTAACATGTC AGCGTTATTG TAATGCAAGT GTGACCAATT CAGTGAAAGG AACGAATGCG ATTCTCTGGA CCTGTTTGGG ysSerSerAs nThrProPro LeuThrCysG lnArgTyrCy sAsnAlaSer ValThrAsnS erValLysGl yThrAsnAla IleLeuTrpT hrCysLeuGl TAAGAGACCT TTGCTTACGC GTCACTTTCC ATTACGITCA CACIGGITAA GATTGTACAG TCGCAATAAC GITCITCIAN INCICCICCI CAAGAAGATT ATGAGGAGGA 301
- GTGTCCTAGT eValLeuMet PheLeuLeuA rgLysIleSe rSerGluPro LeuLysAspG luPheLysAs nThrGlySer CTCTGAACCA TTAAAGGACG AGTTTAAAAA TCAAATTTTT AATTTCCTGC GAGACTTGGT TTTTTGCTAA GGAAGATAAG AAAAACGATT CCTTCTATTC CCTTCTATTC CCTCCTAATG 1 TGGCAGTTTT yLeuSerLeu IleIleSerL euAlaValPh TATTAAAGAA ACCGTCAAAA ACTGAGCTTA ATAATTTCTT TGACTCGAAT 401 62
- CTTACGTGGA GlyLeuLeuG lyMetAlaAs nIleAspLeu GluLysSerA rgThrGlyAs pGluIleIle LeuProArgG lyLeuGluTy rThrValGlu GluCysThrC GAATGCACCT GETCTCCTGG GCATGGCTAA CATTGACCTG GAAAAGAGCA GGACTGGTGA TGAAATTATT CTTCCGAGAG GCCTCGAGTA CACGGTGGAA CCAGAGGACC CGTACCGATT GTAACTGGAC CTTTTCTCGT CCTGACCACT ACTTTAATAA GAAGGCTCTC CGGAGCTCAT GTGCCACCTT 501
- GIGAAGACTG CATCAAGAGC AAACCGAAGG ICGACTCIGA CCATIGCITI CCACICCCAG CIAIGGAGGA AGGGGCAACC AIICITGICA CCACGAAAAC pHisCysPhe ProLeuProA laMetGluGl uGlyAlaThr IleLeuValT hrThrLysTh TAAGAACAGT rccccgree GATACCTCCT GCTAACGAAA GGTGAGGGTC 129 ysGluAspCy sIleLysSer LysProLysV alAspSerAs TTTGGCTTCC AGCTGAGACT GTAGTTCTCG CACTTCTGAC
- AAGACGAICC ATTAATIGGT AAAGCIGAGC TCGICACGGI TAATTAACCA TTTCGACTCG ***** ACGGAGATAG AGAAATCAAT TICIGCTAGG TGCCTCIATC ICTITAGITA AAGACGAICC ThrGlulleG lulysSerIl eSerAlaArg aLeuSerAla TTTGAGTGCT AAACTCACGA GAATGACTAT TGCAAGAGCC TGCCAGCTGC ACGGTCGACG euProAlaAl CTTACTGATA ACGITCTCGG 701

rAsnAspTyr CysLysSerL

162

- TTGACACCTT CTATGTCGAA AAACAGGAGA TTTGTCCTCT GATACAGCTT TCTTTAGGAT GACTGTATTT TTCAGTTGCC TTATCTACTA CACAGTCTAG AGAAATCCTA CTGACATAAA AAGTCAACGG CITITGICAG AATAGAIGAI GIGICAGAIC GAAAACAGTC CTTTAAAAAT GAAATTTTTA 801
- TIAGATATAT TICTCTAGGT TACTGITGGG AGCTTAATGG TAGAACTTC CTTGGTTTCA TGATTAAAGT CTTTTTTTT AACTATATA AAGAGATCCA ATGACAACCC TCGAATTACC ATCTTTGAAG GAACCAAAGT ACTAATTTCA GAAAAAAAA TGAGAAATAC AATCTATATA AAGAGATCCA ATGACAACCC ACTCTTTATG 901

- 7. P. P. P. 1 ATCGATGACT CCACAGAAAG GGAGCAGTCA CGCCTTACTT CTFGCCTTAA GAAAAGAA GAAATGAAAC TGAAGGAGTG IGTTTCCATC CTCCCACGGA GAGGCTGCCT CTTTACTTTG ACTTCCTCAC ACAAAGGTAG I S A ⊼ m Ω CITITCICIT ω ∝ × GCGGAATGAA GAACGGAATT Ω 1. ⊼ RLT TACCTACTGA GGTGTCTTTC CCTCGTCAGT 0 ω ت وي ج SOOE
- TGTCTTTCTA TEGAACGACG ACOGTGACGA CAGAACGACG GAGTGCCACC ACAGAAAGAT T L L L A L L S C C L T V V S F Y CTCACGGTGG Grerigeree TCCTCCRAAG ACGGAAGCT GCTGGCTGCA ACCTTGCTGC TGGCACTGCT rectitegge gagaeagget aggaestre recetitega egaeegaegt LAI ტ S CTCTGTCCGA ک ک 101 AGGRAAGCCC
- CCCCAAGGCC GGGTTCCGG P R A OGGGACGTIC CCCTGGACCG GTCGGAGCC CGTCTCGACG TCCCGGTGGT GCGCCTCTIC GACGGTCGTC CTCGTCCTCG CTGCCAGCAG GAGCAGGAGC 4 L P A G CGCGGAGAAG A E K GCAGAGCTGC AGGGCCACCA E E A E L Q CAGCCTCCGG S 11 8 SCCCTGCAAG GGGACCTGGC ם ני A 1. O. J. A GGTCCACCGG CCAGGTGGCC ۲ > 0 201
- AATAAGCGTG TTATTCGCAC N R R GAACAGCAGA CTTGTCGTCT **x** x GGAGAAGGCA ACTCCAGTCA CCTCTTCCGT TGAGGTCAGT s s <u>မ</u> TGTCACCGCG GGACTGAAA TCTTTGAACC ACCAGCTCCA CCGAACCTCC TTCGAGGTCG ACAGTGGCGC CCTGACTTTT AGAAACTTGG TGGTCGAGGT ۲ ه <u>د</u> L G L K 1 V T A GCCTTGGAGG AAGCTCCAGC A P A 3 7 9 301 101
- GTARACAAGG CATTIGITCC i. CCTAGAATGT GGATCTTACA GSXT TATACAAAAA CGTTGACTAA CGTCTGTCAC TTTGTGGTTG ATATGTTTTT 8 Н GCAGACAGTG AAACACCAAC TPT ADSE GCAACTGATT 1 7 0 ACAGTCACTC AAGACTGCTT TGTCAGTGAG TTCTGACGAA υ Ω T AGGTCTTCTT TCCAGAAGAA о Э 401 CCGTTCAGGG GGCAAGTCCC 9 0 2 135
- GGTTACTTTT TTATATAGG TCAGGTTTTA AGTCCAAAAT CCAATGAAAA AATATATACC G X E GTTTCTTTGA CCTAGAAGAA AAAGAGAATA AAATATTGGT CAAAGAAACT GGATCTTGTT TTTCTCTTAT TTTATAACCA GTTTCTTTGA 7 1 7 7 * * * 1 13 13 CCCCTTCACG GGGGAAGTGC α 5 Ģ AGCTTTAAAA TCGAAATTTT SFXX 501 ATGCTTCTC TACCGAAGAG
- GCTACATAAG CGATGTATTC R C GGRAGARGG CCATGICITI GGGGATGAAT TGAGTCTGGI GACTTIGITI CCTICITCCA GGTACAGAAA CCCCTACITA ACTCAGACCA CTGAAACAAA Ę SLV 3 0 9 H V F × × > GATTAAGTCT LIQR CTAATTCAGA GTACCCTGTA CATGGGACAT H U Σ ATATGACTAT TCTGGATGCG 601 TATACTGATA AGACCTACGC T Y A YTOX 201
- CCCARTARIT CCTGCTRITC AGCTGGCRIT GCARARCTGG AAGRAGGAGA TGRACTCCAA CTIGCARIAC CAAGAGAAA TCGACCGTAA CGITITGACC ITCITCCTCI ACTIGAGGIT GAACGITAIG GIICTCTITI LAL ы 1 <u>م</u> ق W A X U i S æ GGACGATAAG Ś بر ن GGGTTATTAA S 22 24 TGAAACACTA ACTITIGIGAL ب د u 701 AAAATATGCC TTTTATACGG 235
- 801 IGCACAAATA FCACTGGATG CAGATGTCAC ATTITITGGT GCATTGAAAC IGCTGTGA ACGIGITIAT AGIGACCIAC CTCTACAGIG TAAAAAACCA GGIAACTTIG ACGACACT 268 A Q I S L D G D V I F F G A L K L L O

FIG. 3

- 1 GGIACGAGGC TICCIAGAGG GACTGGAACC TAATICICCI GAGGCTGAGG GAGGGTGGAG GGICTCAAGG CAACGCIGGC CCCACGACGG AGIGCCAGGA CCANGCTCCG AAGGATCTCC CTGACCTIGG ATIAAGAGGA CTCCGACTCC CICCCACCTC CCAGAGTICC GITGCGACCG GGGTGCTGCC ICACGGICCT
- cotgritcic atgggaatcg aacgaaagga ggagggagga aaaataaaag ttcaaggaaa aataaagagg aacgcaitgt tggaagaagg gaagacgigg TIGGGTAACA ACCTICITCC TITIATITIC AAGIICCIII ITAITICICC CCTCCCTCCT TTGCTTTCCT GCACTAACAG TACCCTTAGC 101
- S S 70 17 CCCTIACCCG CCCGGCCACC TCCTIGCIAC CCCACTCTIG AAACCACAGC TGTIGGCAGG GTCCCCAGCT CATGCCAGCC TCATCTCGTT TGRCGGGCAT GGGRATGGGC GGGGCGGTGG AGGAACGATG GGGTGAGAAC ITTGGTGTCG ACAACCGTCC CAGGGGTCGA GTACGGTCGA AGTAGAGGAA & d Δ Σ 201 ACTGCCCGTA
- TCTTGCTAGC CCCCAAAGGG CCTCCAGGGA ACATGGGGGG CCCAGTCAGA GAGCCGGCAC TCTCAGTTGC CCTCTGGTTG AGTTGGGGGG CAGCTCTGGG AGAACGATCG GGGGTTTCCC GGAGGTCCGT TGTACCCCCC GGGTCAGTCT CTCGGCCGTG AGAGTCAACG GGAGACCAAC TCAACCCCCC GTCGAGAACC 32 **∀** > တ E P A L بر ح م ψ Ψ P P G N رن بح 301 TCTTGCTAGC
- CCCCTCCCAG ACACGGIACC GAGACGACIG GGIIGITIGI CICGACGICI CGGAGICCIC ICICCACICG GCCGACGICC CCIGICCICC GGGAGGGIC CICIGCIGNC CCARCAACA GAGCIGCAGA GCCICAGGAG AGAGGIGAGC CGGCIGCAGG GGACAGGAGG R LO ε < 11 22 23 ELOS Q H O 1 1 T TGTGCCATGG CAMA CCGGCACCGA 401 GCCCGTGGCT 41
- AGAGCAGTGC TIRCCCCTIC CCAIAGGGAC CGICTCAGAG GGCCTCGICI CAAGGCIACG GGACCTICGG ACCCICITAC CCCTCTCTAG GGCCTTITCC TCTCGICACG CCGGRAAAGG κ κ CCIGGRAGCC TGGGAGATG GGGAGAGATC E R S υ 2 4 и В GCAGAGTCTC CCGGAGCAGA GTTCCGATGC SDA PES 0 S GGTATCCCTG 55 A. ⊁ 501 AATGGGGAAG ω υ 74
- 601 TCACCCAMAMA ACAGAMGAMG CAGCACTCTG TCCTGCACT GGTTCCCATT MACGCCACCT CCAMGGATGA CTCCGATGTG ACAGAGGTGA TGTGGCAMCC AGTGGGTTTT TGTCTTCTTC GTCGTGAGAC AGGACGTGGA CCAMGGGTAA TTGCGGTGGA GGTTCCTACT GAGGCTACAC TGTCTCCACT ACACCGTTGG 108 T O K Q K K Q H S V L H L V P I N A T S K D D S D V T E V H W Q P ×
- GTTTCAAGAC GETTCCTATA CCACAGGCTT AGGTCCTACG ACCTCAAATA GAGGACATAT CGGTCCAGGA CAAAGTTCTG CTGCTGTATA GCCAGGTCCT 11 > LLYS TGGAGTTTAT × > CCAAGGATAT GGTGTCCGAA TCCAGGATGC Q 0 GVRI չ Հ ø GCCTACAGGC TCGAGAATCC GCACCCTCTC CGGATGTCCG 1. O A CGTGGGAGAG AGCTCTTAGG -1 -4 701
- CCGGACCGGG GGCCTGGCCC GGIGGIGTCT CGAGAAGGCC AAGGAAGGCA GGAGACTCTA TICCGAIGTA TAAGAAGTAT GCCCTCCCAC CCACCACAGA GCTCTICCGG TICCTICCGI CCTCTGAGAA AAGGCTACAT AITCTICATA CGGGAGGGIG R S **Ξ** ω 0 8 Ç s > > CCATGGGTCA GGTACCAGT O S E GTGACTTTCA CACTGAAAGT 801
- GCGAAACTTA ACCICTCTCC cctacaacag cigctatage geaggigte iccaittaca ccaaggggai attetgagte tcataatiec ecggggaage gegaaacita acceeteec ggaigitgie gacgatateg cgiecacaga aggiaaaigi ggtiececta taagaeteac agtattaagg ggeecgitee cgetiigaai iggagagagg A L L CCGGGCAAGG 8 8 CCAAGGGGAT ATTCTGAGTG TCATAATTCC H I L S α υ ο GCAGGTGTCT TCCATTTACA ა • SXO 901

FIG. 4A

1001 ACATGGAACC TICCIGGGGI TIGIGAAACT GIGATIGIGI TATAAAAGI GGCICCCAGC TIGGAAGACC AGGGIGGGIA CATACTGGAG ACAGCCAAAGA IGIACCTIGG AAGGACCCCA AAAACTIIGA CACTAACACA ATATTITICA CCGAGGGICG AACCTICIGG TCCCACCCAT GIATGACCIC IGICGGITCI × × F 1. G F H 0 241 1101 GCTGAGTATA TAAAGGAGAG GGAATGTGCA GGAACAGAGG CATCTTCCTG GGTTTGGCTC CCCGTTCCTC ACTTTTCCT TTTCATTCCC ACCCCTAGA CGACTCATA ATTTCCTCTC CCTTACACGT CGTGTCTCC GTAGAAGGAC CCAAACGAG GGGCAAGGAG TGAAAAGGG AAAGTAAGG TGGGGGATCT

1201 CITICATITI ACGGATATCT IGCITCIGIT CCCCATGGAG CICCGAAITC TIGGGGGGG GTAGATGAGG GGCGGGGGAC GGGGGCCAGG CAFTGITCAG GAAACIAAAA IGCCIAIAGA ACGAAGACAA GGGGIACCIC GAGGCIIAAG AACGCACACA CAICIAACIC CCGCCCCIG CCGCGGGCC GTAACAAGIC

1301 ACCIGGICGG GGCCCACTGG AAGCAICCAG AACAGCACCA CCATCTIA IGGACCAGCC CCGGGIGACC TICGIAGGIC TIGICGIGGI GGIAGAAI

FIG. 4B

TACIS

agcatcctgagtaATGAGTGGCCTGGGCCGGAGCAGGCGAGGCGGGGCCGTGTGGACCAGG TGCATCAGCTGTGCCTCCATCTGTGGACAGCACCCTAAGCAATGTGCATACTTCTGTGAGAACAA GCTCAGGAGCCCAGTGAACCTTCCACCAGAGCTCAGGAGACAGCGGAGTGGAGAAGTTGAAAACA ATTCAGACACTCGGGAAGGTACCAAGGATTGGAGCACAGAGGCTCAGAAGCAAGTCCAGCTCTC CCGGGGCTGAAGCTGAGTGCAGATCAGGTGGCCCTGGTCTACAGCACGCTGGGGCTCTGCCTGTG TGCCGTCCTCTGCTGCTGGTGGCGGTGGCCTGCTTCCTCAAGAAGAGGGGGGGATCCCTGCT CCTGCCAGCCCGCTCAAGGCCCCGTCAAAGTCCGGCCAAGTCTTCCCAGGATCACGCGATGGAA GCCGGCAGCCCTGTGAGCACATCCCCCGAGCCAGTGGAGACCTGCAGCTTCTGCTTCCCTGAGTG CAGGGCGCCCACGCAGGAGAGCGCAGTCACGCCTGGGACCCCGACCCCACTTGTGCTGGAAGGT GGGGGTGCCACACAGGACCACAGTCCTGCAGCCTTGCCCACACATCCCAGACAGTGGCCTTGGC ATTGTGTGTGCCCTGCCCAGGAGGGGGCCCAGGTGCATAAatqggggtcaggggaaagga ggagggagagatggagagggggagagagaagagaggtggggagaggggagagagatatga gagggagagagagacagaggggaagagaggcagaggggaaagaggcagagaaggaaagacag gcagagaaggagaggcagagagggagagaggcagagggagagagaggcagagagacagagag gagagagggacagagagagatagagcaggaggtcggggcactctgagtcccagttcccagtgcag ctgtaggtcgtcatcacctaaccacacgtgcaataaagtcctcgtgcctgctgctcacagccccc

Fig. 5A

TACIs :

MSGLGRSRRGGRSRVDQEERWSLSCRKEQGKFYDHLLRDCISCASICGQHPKQCAYFCENKLRSP VNLPPELRRQRSGEVENNSDNSGRYQGLEHRGSEASPALPGLKLSADQVALVYSTLGLCLCAVLC CFLVAVACFLKKRGDPCSCQPRSRPRQSPAKSSQDHAMEAGSPVSTSPEPVETCSFCFPECRAPT QESAVTPGTPDPTCAGRWGCHTRTTVLQPCPHIPDSGLGIVCVPAQEGGPG

Fig. 5B

human BR3:

Fig. 6A

BR3:

MRRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPAGASSPAPRTALQPQESVGA GAGEAALPLPGLLFGAPALLGLALVLALVLVGLVSWRRRQRRLRGASSAEAPDGDKDAPEPLDKV IILSPGISDATAPAWPPPGEDPGTTPPGHSVPVPATELGSTELVTTKTAGPEQQ

Fig. 6B

PRO

XXXXXXXXXXXXXXXXXXXXXXX

(Length = 15 amino acids)

Comparison Protein

XXXXXXYYYYYYY

(Length = 12 amino acids)

% amino acid sequence identity =

(the number of identically matching amino acid residues between the two polypeptide sequences as determined by ALIGN-2) divided by (the total number of amino acid residues of the PRO polypeptide) =

5 divided by 15 = 33.3%

FIG. 7A

PRO

XXXXXXXXXXXXX

(Length = 10 amino acids)

Comparison Protein

XXXXXYYYYYYYZZYZ

(Length = 15 amino acids)

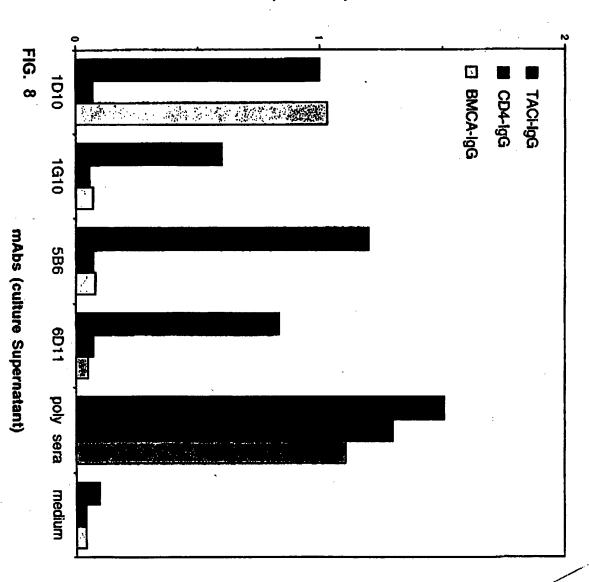
% amino acid sequence identity =

(the number of identically matching amino acid residues between the two polypeptide sequences as determined by ALIGN-2) divided by (the total number of amino acid residues of the PRO polypeptide) =

5 divided by 10 = 50%

FIG. $7\mathcal{B}$

O.D (450 nm)



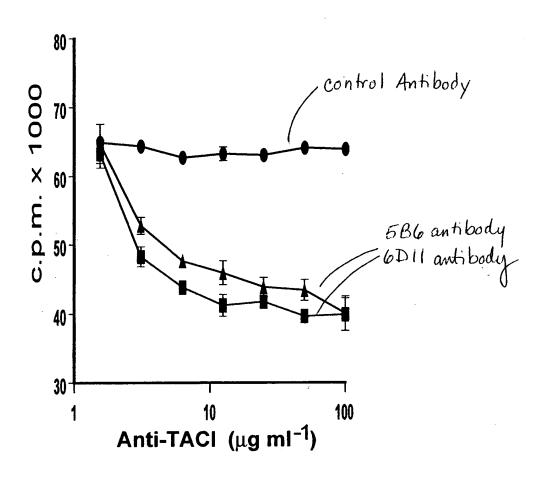
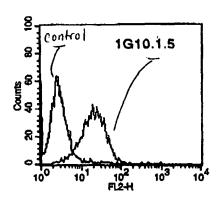
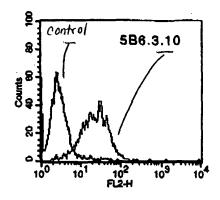


Figure 9





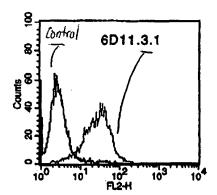
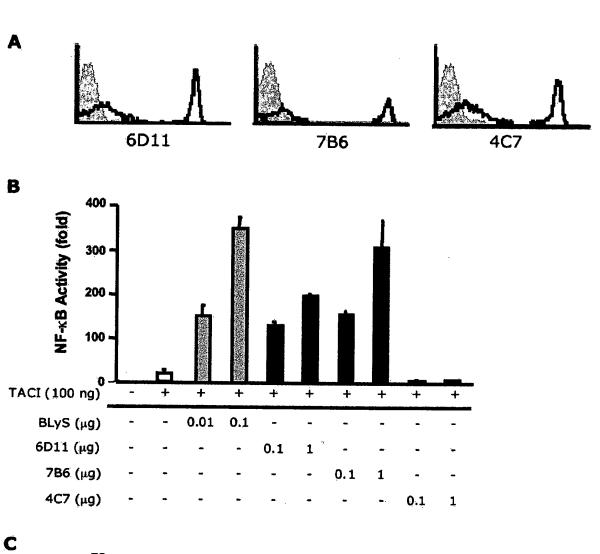


FIG. 10



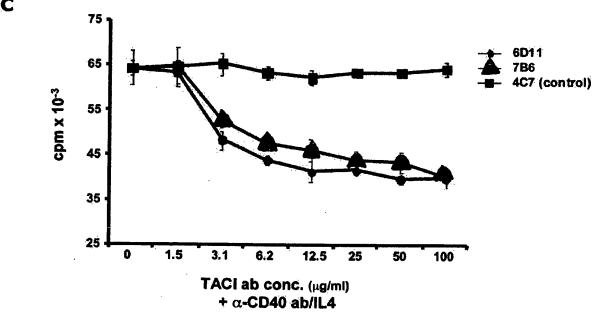


FIG. II